

# **EXHIBIT E**

**Exhibit A - U.S. Patent No. 8,891,347 (“’347 Patent”)**

Accused Instrumentalities: (1) cellular base stations that support 3GPP 5G NR beamforming, and (2) cellular user equipment (UE) that supports 3GPP 5G NR beamforming.

Based upon publicly available information and without the benefit of discovery in this case, the accused base stations include, but are not limited to the following products sold by Nokia, Ericsson, and Samsung:

**Nokia:** AirScale base station, AirScale radio and baseband, AirScale 5G mMIMO base station, ReefShark System on Chip and all products containing the same, AirScale Osprey, AirScale Habrok, AirScale mRRH, AirScale pRRH, AirScale 4.5G Pro RRH, AirScale sHUB, FZHR, AHBOA, FSIH, FHFB, AZHL, AAFIA, 32TRX, and 64TRX.

**Ericsson:** 5G AIR products, 5G Baseband products, 5G Radio products, 5G Antenna products, AIR 1279, AIR 3218, AIR 3219, AIR 3229, AIR 3239, AIR 3246, AIR 3258, AIR 3268, AIR 3283, AIR 6419, AIR 6428, AIR 6468, AIR 6476, AIR 6488, Interleaved AIR, Baseband 5216, Baseband 6502, Baseband 6648, 5G Radio Dot, Radio 4407, Radio 4408, Radio 4412, Radio 4418, Radio 4485, Radio 4490, Radio 8808, Radio 8863, Antenna 4600, Antenna 4602, Antenna 5500, and Antenna 6600.

**Samsung:** 5G base stations, 4T4R CBRS Radio, 32T32R Radio, 64T64R Radio, C-Band Radio, CDU50, One Antenna Radio, Link Hub, and Link HubPro.

The accused UE devices include without limitation the Apple iPhone 12, iPhone 12 mini, iPhone 13, iPhone 13 mini, iPhone 13 Pro, iPhone 13 Pro Max, iPhone 14, iPhone 14 Plus, iPhone 14 Pro, iPhone 14 Pro Max, iPhone SE, iPad, iPad Air, iPad Mini, iPad Pro 11-inch, and iPad Pro 12.9-inch; Samsung Galaxy S10, Galaxy S20, Galaxy S20+, Galaxy S20 Ultra, Galaxy S20 FE, Galaxy S21, Galaxy S21+, Galaxy S21 Ultra, Galaxy S21 FE, Galaxy S22, Galaxy S22+, Galaxy S22 Ultra, Galaxy S23, Galaxy S23+, Galaxy S23 Ultra, Galaxy Z Flip3, Galaxy Z Flip4, Galaxy Fold, Galaxy Z Fold2, Galaxy Z Fold3, Galaxy Z Fold4, Galaxy A13, Galaxy A14, Galaxy A22, Galaxy A23, Galaxy A32, Galaxy A33, Galaxy A42, Galaxy A51, Galaxy A52, Galaxy A53, Galaxy A71, Galaxy A73, Galaxy A90, Galaxy F42, Galaxy F52, Galaxy M13, Galaxy M32, Galaxy M42, Galaxy M52, Galaxy Note 10, Galaxy Note 10+, Galaxy Note 20, Galaxy Note 20 Ultra, and Galaxy Quantum 2; Google Pixel 4a, Pixel 5, Pixel 5a, Pixel 6, Pixel 6a, and Pixel 7; Motorola Edge, Edge+, G Play, G Power, G Pure, G Stylus, and One; and UE devices (such as Wi-Fi gateway devices) provided for use with defendant’s home 5G Internet services.